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[PDF] ► [Beyond availability: Towards a deeper understanding of machine failure ...](#)

P Yalagandula, S Nath, H Yu, PB Gibbons, S Seshan - [usenix.org](#)

... Here we investigate how strong **failure correlation** is for PlanetLab nodes and for the ... 58 nodes failed near-simultaneously; while WS_trace has a failure event of 42 web **servers**. ... They also incorporate repair mechanisms (called regeneration) to create new **replicas** when existing ...

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[Introspective failure analysis: Avoiding correlated failures in peer-to-peer systems-](#) ► [psu.edu](#)

[PDF]

H Weatherspoon, T Moscovitz, J ... - ... OF THE SYMPOSIUM ..., 2002 - [doi.ieeecomputersociety.org](#)

... The four-fragment case (top line) is equivalent to simple **replica-** tion on four **servers**. ... the subsequent placement of elements on such **servers** dis- semination. ... input from human sources, network measure- ments, and online observation to develop a model of **failure correlation**. ...

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[Large-scale simulation of replica placement algorithms for a serverless distributed ...-](#)

► [psu.edu](#) [PDF]

JR Douceur, RP Wattenhofer - [Proceedings of the 9th ...](#) - [doi.ieeecomputersociety.org](#)

... scalable, distributed file system that logically functions as a centralized file **server** but that ... **Replicas** are placed to maximize the effective system availability, using a distributed, iterative ... We quantify the degree of machine **failure correlation** and develop a formula to approximate its ...

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F Junqueira, R Bhagwan, K Marzullo, S ... - [Proc. of HotOS- ...](#), 2003 - [research.microsoft.com](#)

... **servers** so that the **replicas** will survive Internet worms that exploit bugs in the **server**. ... backup system for tolerating catastrophes, we need a con- cise way of representing **failure correlation**. ... **Replicas** on additional hosts beyond a core set will not sig- nificantly contribute to data ...

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[Performance and availability tradeoffs in replicated file systems-](#) ► [psu.edu](#) [PDF]

J Zhang, P Honeyman - [Ann Arbor](#) - [doi.ieeecomputersociety.org](#)

... expected frequency of storage site failure, and the degree of correlated failure among replication **servers**. ... **correlation** is around 0.2, but when the RTT is 200 msec., the **failure correlation** drops to ... can improve the durability of data by maintaining copies on remote **replicas** and by ...

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[PDF] ► [The replica management system: a scheme for flexible and dynamic replication](#)

MC Little, DL McCue - 1994 - [Citeseer](#)

... For example, replicating a critical name-**server** object on three machines that receive power ... and a very high MTTR would be unsuitable for placing object **replicas** which will ... system attempts automatic detection of common failure patterns and develops a **failure correlation** matrix ...

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[Component Replication based on Failover Units-](#) ► [wustl.edu](#) [PDF]

F Wolf, J Balasubramanian, A ... - [Proceedings of the ...](#), 2009 - [doi.ieeecomputersociety.org](#)

... as the need for efficient synchronization of internal component state, **failure correlation** across

groups ... Manually implementing these initializa- tion steps in clients and **servers** increases the risk of ... deployment scenarios, since the num- ber and types of object **replicas** per-server ...

[Cited by 4](#) - [Related articles](#) - [All 5 versions](#)

Software survivability

D Wells, S Ford, D Langworthy, N ... - Proc. DARPA Information ... - doi.ieeecomputersociety.org

... The number and placement of the **replicas** imple- menting a **server** object can be changed using the capa- bilities of any of a number of **replica** management systems [13][5] and the ability to migrate and mutate objects in- troduced above. ...

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[PDF] ► Subtleties in tolerating correlated failures in wide-area storage systems

S Nath, H Yu, PB Gibbons, S Seshan - [usenix.org](#)

... a similar conclusion by analyzing a four-week failure trace of 306 web **servers** 4 . Based ... stability of the clusters, they conjecture that by placing the n fragments (or **replicas**) in n different clusters, the n fragments will not observe excessive **failure correlation** among themselves. ...

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F Wolfa, J Balasubramaniana, S Tamba, A Gokhale, ... - [cse.wustl.edu](#)

... efficient synchronization of internal component state, **failure correlation** across groups of components, ... synchronization. Each process con- taining **server** object **replicas** also hosts a StateSynchronizationAgent that is responsible for all replication ...

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